

### **Abstract**

A flexible telescoping electromagnetic tool comprises an end cap formed of a magnetizable material and an end section formed of a non-magnetizable material. The end cap is connected to the end section. A tubular section is formed of a non-magnetizable material wherein the tubular section slidably receives the end section. An electrically conducting insert is disposed through the tubular section and through the end section. The conducting insert is electrically connected to a power supply. The module is attached to the distal end of the non-magnetizable tubular section. The electromagnetic tool also has a ring insert secured to the end section. The ring insert is formed of plastic and has a width that is greater than a diameter of the opening. The ring insert is attached inside [said] the tubular section. The insert connects to an inductor. The inductor has two contacts and is near the end cap.